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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONTENDA O TION
09/474,536	12/29/1999	QINGYU ZENG	24707A	CONFIRMATION NO.
22889 759	0 04/12/2002		- 1,0,1.	2359
OWENS CORNING 2790 COLUMBUS ROAD GRANVILLE, OH 43023			EXAMINER	
			TORRES VELAZQU	
			1771	PAPER NUMBER
			DATE MAILED: 04/12/2002	0

Please find below and/or attached an Office communication concerning this application or proceeding.

.			1-D-8				
,		Application No.	Applicant(s)				
Office Action Summary		09/474,536	ZENG ET AL.				
		Examiner	Art Unit				
		Norca L. Torres-Velazquez	1771				
The MAILING DATE of Period for Reply	this communication appe	ars on the cover shet with the	correspondenc address				
THE MAILING DATE OF THI - Extensions of time may be available use after SIX (6) MONTHS from the mailing if the period for reply specified above in the first of the first of the first or extending the first of the first or extending the first of the fi	S COMMUNICATION. Inder the provisions of 37 CFR 1.136 Inder the provisions of 37 CFR 1.136 Index of this communication. In set than thirty (30) days, a reply we In the maximum statutory period will Index period for reply will, by statute, communication In three months after the mailing of	IS SET TO EXPIRE 3 MONTH (a). In no event, however, may a reply be to the vithin the statutory minimum of thirty (30) data apply and will expire SIX (6) MONTHS from ause the application to become ABANDON ate of this communication, even if timely file.	imely filed lys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. & 133).				
1) Responsive to commu	ınication(s) filed on <u>24 Ja</u>	nuary 2002 .					
2a) This action is FINAL.	2b)☐ This	action is non-final.					
3) Since this application closed in accordance Disposition of Claims	is in condition for allowan with the practice under <i>E</i>	ce except for formal matters, p x parte Quayle, 1935 C.D. 11,	prosecution as to the merits is 453 O.G. 213.				
· <u>_</u>	anding in the annication						
	 4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 						
_	5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-20</u> is/are rej							
7) Claim(s) is/are o							
	ject to restriction and/or	election requirement.					
Application Papers		·					
9) The specification is obje	cted to by the Examiner.						
10) The drawing(s) filed on	is/are: a)□ accepte	ed or b)⊡ objected to by the Exa	aminer.				
		drawing(s) be held in abeyance. S	• •				
11) The proposed drawing of			oved by the Examiner.				
	awings are required in reply						
12) The oath or declaration		niner.	•				
Priority under 35 U.S.C. §§ 119							
13) Acknowledgment is ma		priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
a)□ All b)□ Some * c)□	None of:						
1. ☐ Certified copies of	 Certified copies of the priority documents have been received. 						
2. Certified copies of	2. Certified copies of the priority documents have been received in Application No						
application from	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
			e) (to a provisional application).				
	ne foreign language provi	sional application has been red	ceived.				
Attachment(s)		F. 121	, and/01 (2).				
1) Notice of References Cited (PTO-8 2) Notice of Draftsperson's Patent Dra 3) Information Disclosure Statement(s	wing Review (PTO-948)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

DETAILED ACTION

1. Rejection of claims 1-4, 6-7 and 9-13 under 35 U.S.C. 102(b) over CHENOWETH et al. are withdrawn in view of Applicant's arguments.

- 2. However, claim 1-20 remain rejected under 35 U.S.C. 103(a) as being unpatentable over CHENOWETH et al. in view of SWAN et al.
 - a. Applicants argued that CHENOWETH et al. fails to disclose a product incorporating any form of perimeter flange, that CHENOWETH et al. teaches applying a scrim or film to one or both surfaces of the product while Applicants invention provides a facing material comprising a combination of a scrim web and a film.

CHENOWETH et al. teaches that if desired, a foraminous or imperforate film or skin may be applied to one or both surfaces of the product during its manufacture to enhance the surface finish of the product. A fabric or cosmetic materials may also be applied to one or both surfaces to provide a finished surface. (Column 3, lines 32-37) It is noted that the references teachings does not preclude the use of a second material in combination with a scrim.

b. Further, Applicants argue that there is no disclosure in CHENOWETH of the concept of providing any form of perimeter flange in order to increase strength or rigidity.

In response to Applicants' argument that there is no disclosure in CHENOWETH to increase strength or rigidity by providing any form of perimeter flange, the fact that CHENOWETH uses their invention in applications such as motor vehicle headliner and the secondary reference SWAN et al. provides motivation to provide "reduced thickness"

areas" to promote the integrity of the laminate does not alter the conclusion that its use in a prior art device would be *prima facie* obvious from the purpose disclosed in the reference.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over CHENOWETH et al. (US 4946738) in view of SWAN et al. (US 5773375) as stated in previous action.

CHENOWETH et al. discloses a non-woven fibrous product that can be used as insulation and as a motor vehicle headliner. (Column 1, lines 26-32) Their invention relates to a non-woven blanket or mat consisting of matrix of mineral, i.e., glass fibers and man-made, i.e., synthetic fibers. The synthetic fibers are of two types. The first type is conventional, homogeneous solid or hollow fibers of polyester, among other materials. The second type is bicomponent core and sheath fibers of materials, typically polyesters, having distinct melting points. The reference further discloses that a scrim and additional fabric or cosmetic coverings may be applied to one or both surfaces. (Column 2, line 67 – Column 3, lines 1-10).

CHENOWETH et al. further teaches that the density of the product may be adjusted by selection of fiber size or by adjusting the degree to which this blanket is compressed during forming operations. (Column 3, lines 40-44).

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It is noted that CHENOWETH et al. is silent with respect to the claimed perimeter flange. However, it is reasonable to presume that the claimed flange is inherent to the invention of CHENOWETH et al. Support for said presumption is found in the use of the same starting materials (i.e. non-woven blanket, a scrim and additional fabric), like processes of making the articles (i.e., pressure molding by which the density of the product may be adjusted), and the production of similar end-products (i.e., insulation product, etc...). The CHENOWETH et al. teaches the use of their laminate in sheets, panels and complexly curved and configured products and that it has particular motor vehicle application as a motor vehicle headliner. As described in the paragraph above, the density of the product may be adjusted by adjusting the degree to which the blanked is compressed. The burden is upon the Applicant to prove otherwise. *In re Fitzgerald*, 205 USPQ 594.

However, the CHENOWETH et al. reference does not teach a facing material that is water resistant.

SWAN et al. teach a laminate that has desirable acoustical insulation properties that can also act as a water shield or barrier to prevent water from entering a vehicle body. The reference teaches that it has broader applications and could be equally adapted for use in providing acoustical insulating and water barrier properties to other articles. The laminate includes a *water barrier layer* such as a planar thermoplastic film and it further teaches the use of polyolefins such as polypropylene, as the preferred materials for the film. SWAN et al. also teaches that the laminate can induce an optional scrim layer to increase the integrity of the laminate. (Column 5, line 53 – Column 6, lines 1-67).

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The reference further teaches that the laminate is typically pressure molded to form reduced thickness areas along its outer periphery. In Fig.1 side edges 18 are shown.

Since both CHENOWETH et al. and SWAN et al. are from the same field of endeavor, insulation materials, the purpose disclosed by SWAN et al. would have been recognized in the pertinent art of CHENOWETH et al.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the insulation product and provide it with a film as one of the optional additional fabrics for the purpose of providing the laminate with water barrier properties as disclosed by SWAN et al. (Column 5, lines 58-60)

Regarding to claims 1, 3-4, 12 and 13, although the perimeter flange is considered to be inherent to CHENOWETH et al.'s invention as described in paragraph 2 above, it would also have been obvious at the time the invention was made to a person having ordinary skill in the art to provide the insulation product with an perimeter flange with higher density than the rest of the blanket and with reduced thickness for the purpose of promoting the integrity of the laminate in that area to be easily handled by manufacturers during assembly operations as disclosed by SWAN et al. (Column 6, lines 44-47).

It is noted that both CHENOWETH et al. and SWAN et al. are silent with respect to the claimed static coefficients of friction. However, it is reasonable to presume that the claimed static coefficient of friction is inherent to the inventions of CHENOWETH et al. and SWAN et al. Support for said presumption is found in the use of the same starting materials (i.e. uses PTE fibers and polypropylene film), like processes of making the articles (i.e., pressure molding), and

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the production of similar end-products (i.e., acoustical insulation, etc...). The burden is upon the Applicant to prove otherwise. *In re Fitzgerald*, 205 USPQ 594.

5. Claims 1-2 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over HAINES et al. (US 5459291) in view of SWAN et al. as stated in previous action.

HAINES et al. discloses a sound absorption laminate comprising a porous insulation substrate, such as, a thermoplastic glass or polymeric fiber blanket and a facing sheet with a high airflow resistance. (Abstract) The reference teaches that typical applications for this material include: automotive headliners and hood liners. (Column 1, lines 19-26)

However, the reference does not disclose a perimeter flange.

SWAN et al. teaches that the laminate is typically pressure molded to form reduced thickness areas along its outer periphery. In Fig.1 side edges 18 are shown.

Since both HAINES et al. and SWAN et al. are from the same field of endeavor, the purpose disclosed by SWAN et al. would have been recognized in the pertinent art of HAINES et al.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the insulation product with an perimeter flange with higher density than the rest of the blanket and with reduced thickness for the purpose of promoting the integrity of the laminate in that area to be easily handled by manufacturers during assembly operations as disclosed by SWAN et al. (Column 6, lines 44-47).

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Norca L. Torres-Velazquez whose telephone number is 703-306-

5714. The examiner can normally be reached on Monday-Thursday 7:30-5:00 pm and alternate

Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Terrel Morris can be reached on 703-308-2414. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-872-9310 for regular

communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-0661.

nlt

April 3, 2002

TERREL MORRIS
SUPERVISORY PATENT EXAMINER

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